DVI-RGB 150

DVI TO ANALOG RGB VIDEO INTERFACE

- DVI-D to analog RGB conversion
- Variable level and peaking controls
- Buffered local monitor DVI output
- RGBHV, RGBS, or RGsB output
- Compatible with single link DVI-D signals
- EDID emulation for 28 rates including UXGA (1600x1200) and HDTV 1080p
- Two-color status indicator LED



The Extron DVI-RGB 150 converts single link DVI-D signals to analog RGB signals. It is ideal for integrating digital video sources into conventional analog-based A/V systems. The DVI-RGB 150 is equipped with several convenient features for integration such as variable level and peaking controls for the analog RGB output.

Extron® Electronics
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DESCRIPTION

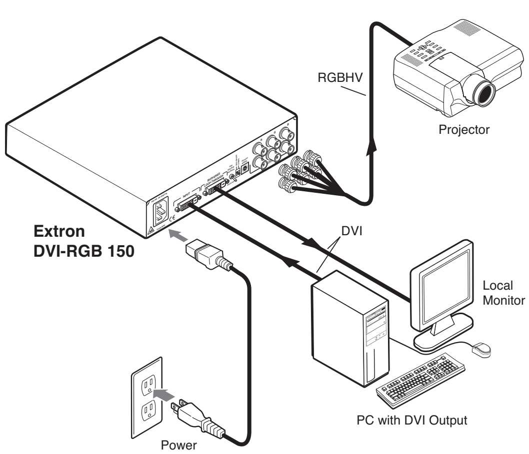
The Extron **DVI-RGB 150** converts single link DVI-D signals to analog RGB signals for convenient integration of digital video sources into conventional analog A/V systems. It is compatible with high resolution computer-video signals up to UXGA (1600x1200) and HDTV up to 1080p.

A buffered loop-through provides DVI-D video to a local monitor. In the absence of a local monitor, an EDID emulation mode provides the necessary communication between the DVI-RGB 150 and the DVI input source. Variable level and peaking controls for the analog RGB output compensate for cable loss over long distances. The DVI-RGB 150 is housed in a 1U, half rack width metal enclosure.

FEATURES

- **Single link DVI-D to analog RGB video conversion**
- **Variable level and peaking controls for analog RGB output**
- **Buffered local monitor output**
- **EDID emulation mode** – The DVI-RGB 150 provides a selector for specifying the rate of the incoming DVI signal. EDID emulation mode allows proper operation when no local monitor is present.
- **Compatible with 28 rates including UXGA (1600x1200) and HDTV 1080p**
- **Two-color LED: Amber indicates power, green indicates power and signal presence**
- **RGBHV, RGBS, or RGsB output**
- **Includes 6' (1.8 m) DVI-D male to male cable**
- **Optional under-desk and through-desk mounting kits available**
- **Rack-mountable 1U, half rack width metal enclosure**
- **Internal international power supply**

APPLICATION DIAGRAM



SPECIFICATIONS

VIDEO INPUT AND LOOP-THROUGH

Number/signal type .... 1 single link DVI-D digital video input
1 single link DVI-D buffered loop-through
Connectors .... 1 DVI-D female (DVI input)
1 DVI-D female (DVI loop through)
TMDS nominal level .... 0.4 V to 0.6 V swing
TMDS impedance .... 100 ohms
DC offset (max. allowable) .... ±0.5 V

VIDEO OUTPUT

Number/signal type .... 1 RGBHV, RGBS, RGsB
Connectors .... 6 BNC female
Nominal level .... 0.7 Vp-p for RGB
Level adjustment range .... 0 dB to 6 dB (x1 to x2)
Peaking adjustment range .... 0 dB to 6 dB (x1 to x2) at 100 MHz
Impedance .... 75 ohms
Output resolution .... Follows input, determined by the local DVI loop-through monitor or by the selector on this product. Resolution selector resolutions and rates

Selectable Resolutions and rates

RESOLUTION	REFRESH LOW	REFRESH HIGH
640x480	60 Hz	75 Hz
800x600	60 Hz	75 Hz
852x480	60 Hz	75 Hz
1024x768	60 Hz	75 Hz
1024x852	60 Hz	75 Hz
1280x768	60 Hz	75 Hz
1280x1024	60 Hz	75 Hz
1365x768	60 Hz	75 Hz
1366x768	60 Hz	75 Hz
1400x1050	60 Hz	60 Hz
1600x1200	60 Hz	60 Hz
480p	60 Hz	60 Hz
576p	50 Hz	50 Hz
720p	50 Hz	60 Hz
1080i	50 Hz	60 Hz
1080p	50 Hz	60 Hz

Return loss .... -35 dB @ 5 MHz
DC offset .... ±5 mV maximum with input at 0 offset
Output cable driving distance .... 150' (45 m) at 1600 x 1200 with Extron MHR cable 250' (60 m) at 1024 x 768 with Extron MHR cable

SYNC

Output type .... RGBHV, RGBS, RGsB
Output level .... TTL (5 Vp-p, unterminated)
Output impedance .... 75 ohms
Polarity .... Positive or negative (follows input)

GENERAL

Power .... 100 VAC to 240 VAC, 50/60 Hz, 25 watts, internal, autoswitchable.
Rack mount .... Yes, with an optional 1U rack shelf, part #60-190-01 or 60-604-01; or a 1U, 6" deep rack shelf, part #60-190-10 or 60-604-10. Also furniture mountable with an optional MBU 125 under-desk mounting kit, #70-077-01; or MBD 129 through-desk mounting kit, #70-077-02.
Enclosure type .... Metal
Enclosure dimensions .... 1.7" H x 8.7" W x 6.0" D (1U high, half rack wide) 4.3 cm H x 22.1 cm W x 15.2 cm D (Depth excludes connectors and knobs.)
Product weight .... 1.6 lbs (0.7 kg)
Shipping weight .... 4 lbs (2 kg)
Vibration .... ISTA 1A in carton (International Safe Transit Association)
Listings .... UL, CUL
Compliances .... CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF .... 30,000 hours
Warranty .... 3 years parts and labor
NOTE: All nominal levels are at ±10%.

Model	Version Description	Part Number
DVI-RGB 150	DVI to RGB Video	60-808-01

Specifications are subject to change without notice.

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